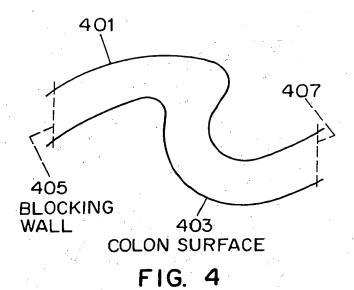


F16. 2



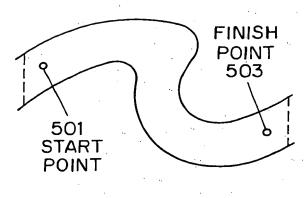


FIG. 5

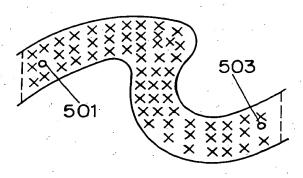


FIG. 6

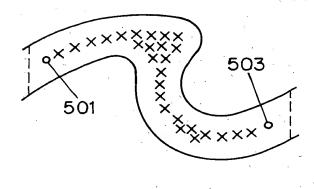


FIG. 7

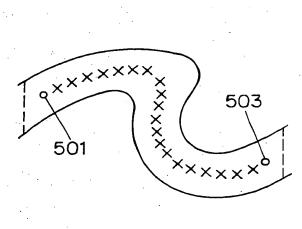


FIG. 8

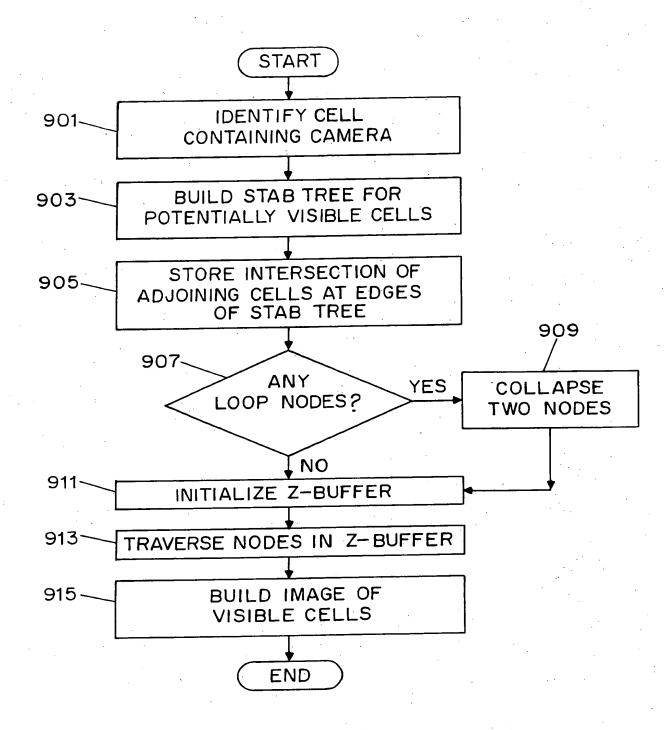


FIG. 9

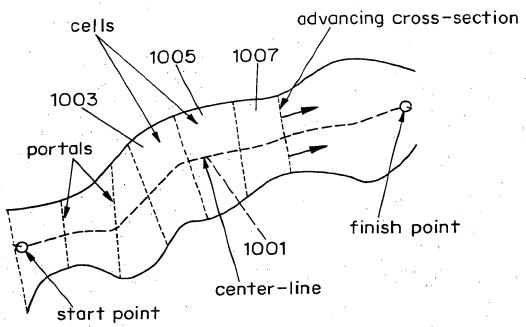


FIG. 10

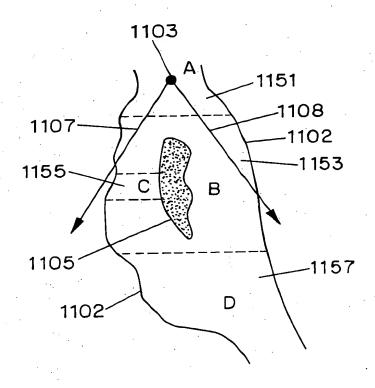


FIG. 11 (a)

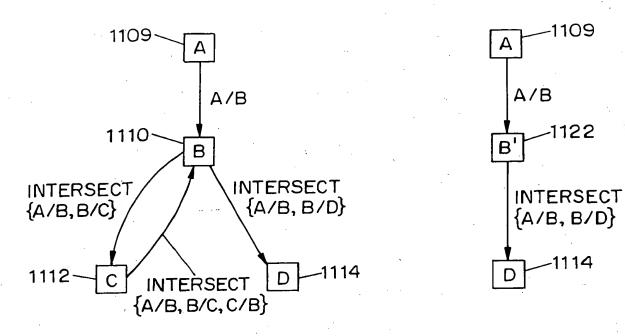


FIG. 11(b)

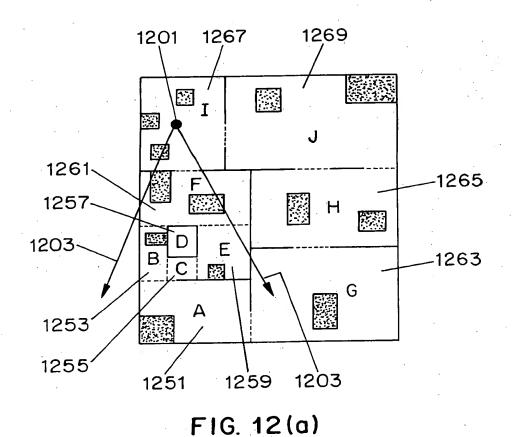
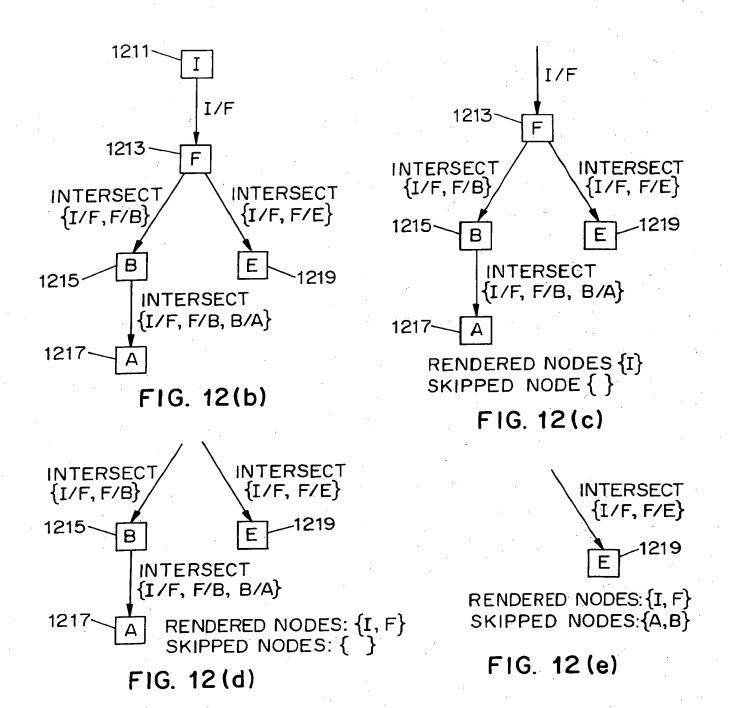
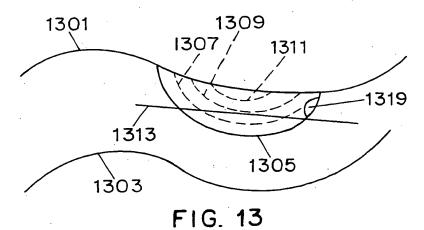


FIG. 11(c)





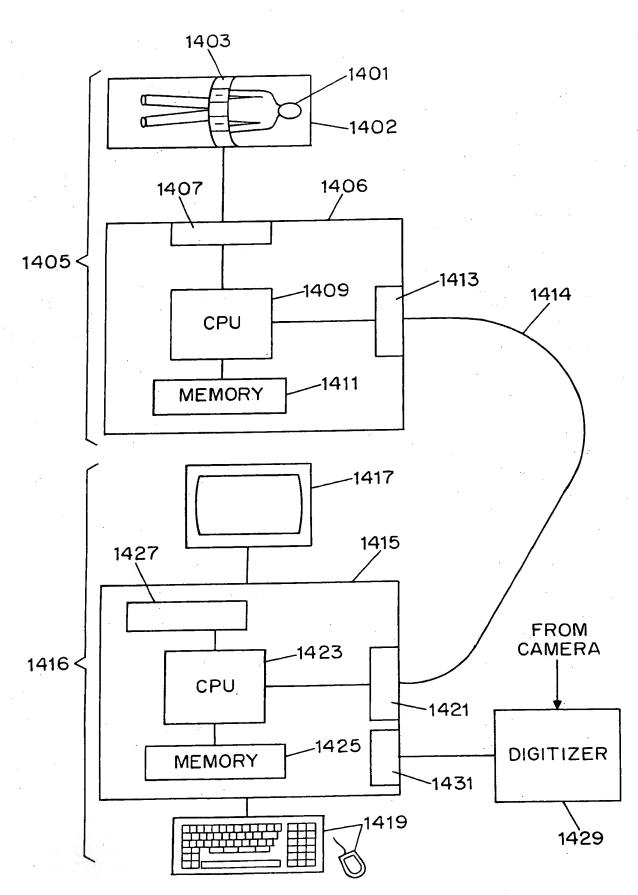
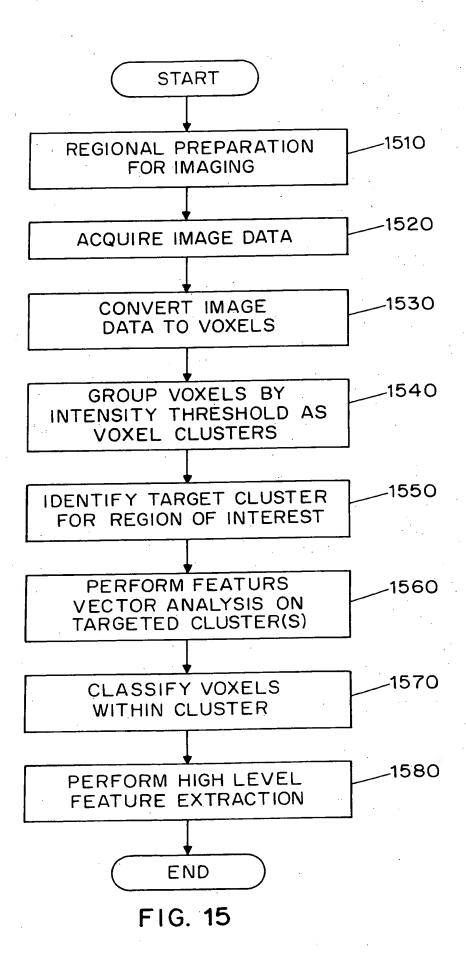


FIG. 14



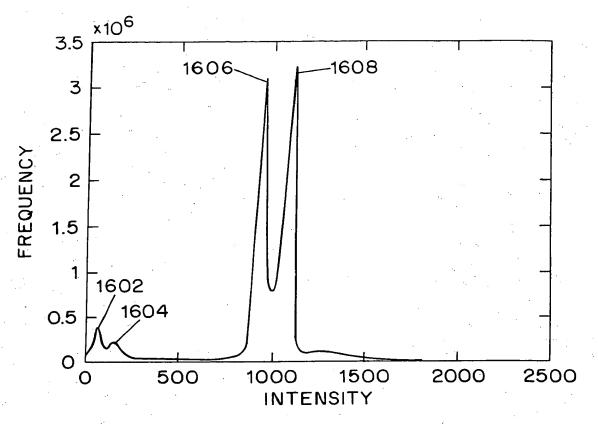


FIG. 16

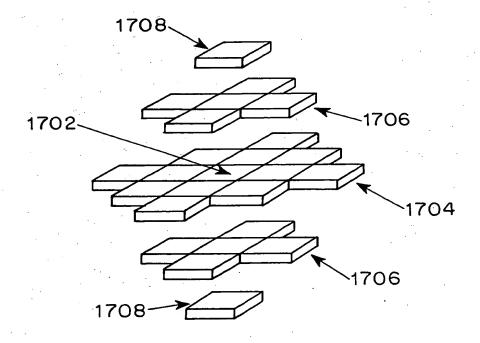


FIG. 17

1802

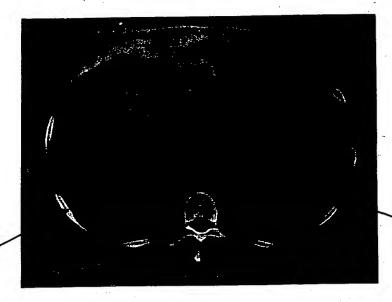


FIG. 18A

1802

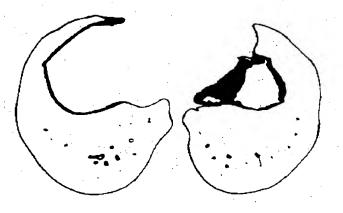


FIG. 18B

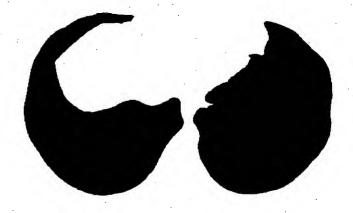


FIG. 18C

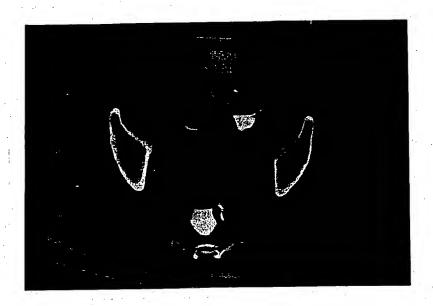


FIG. 19A

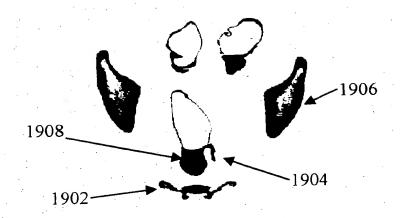


FIG. 19B



FIG. 19C

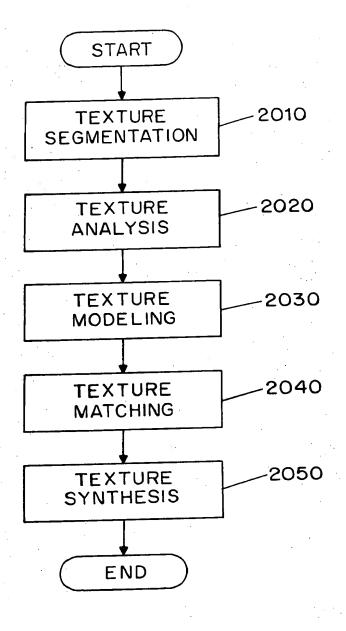


FIG. 20

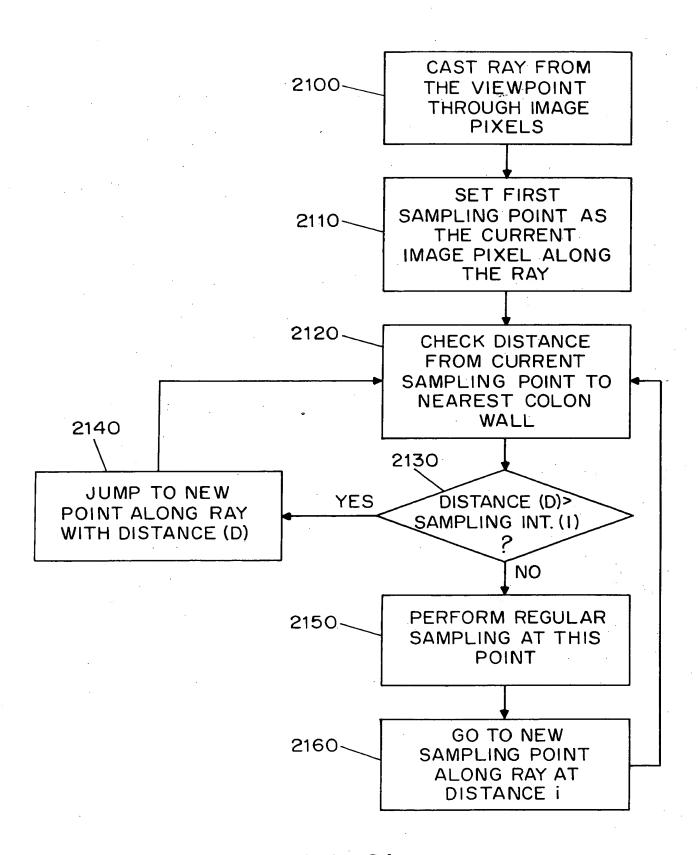


FIG. 21

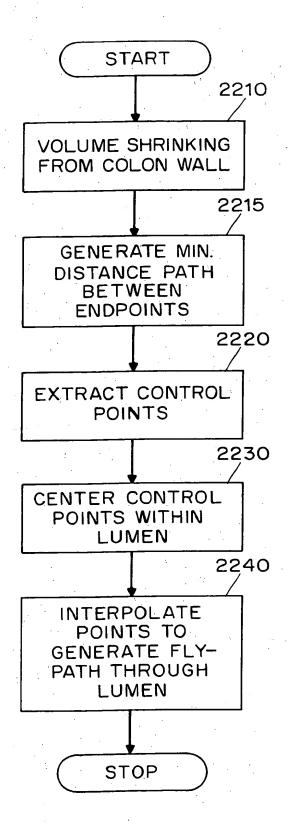


FIG. 22

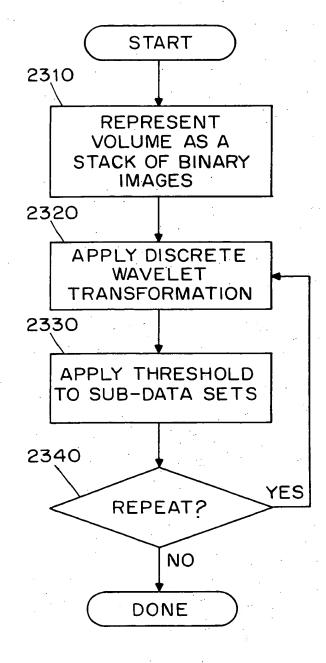
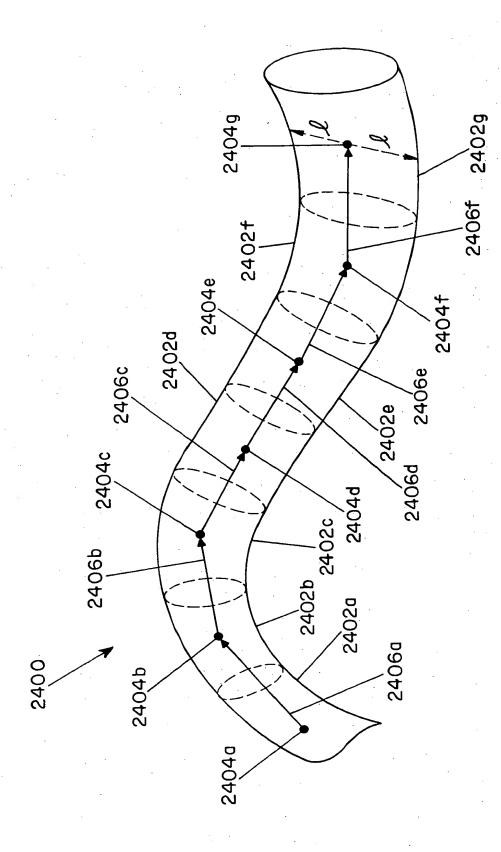


FIG. 23



F16. 24

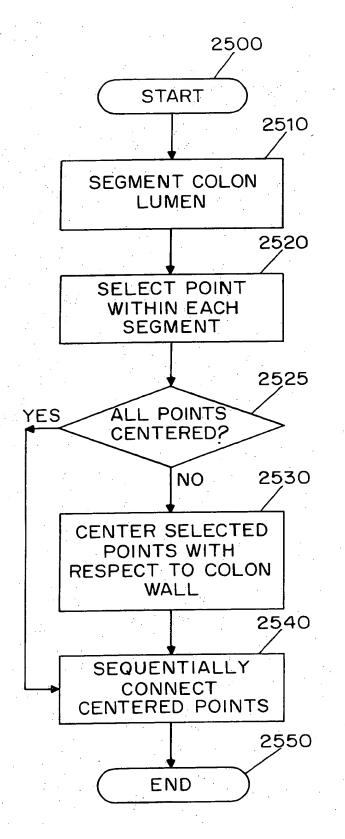


FIG. 25

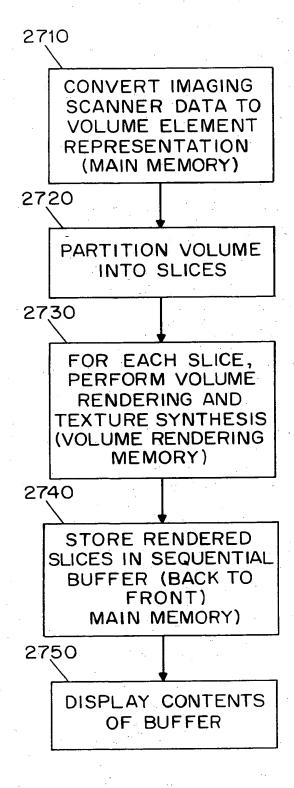
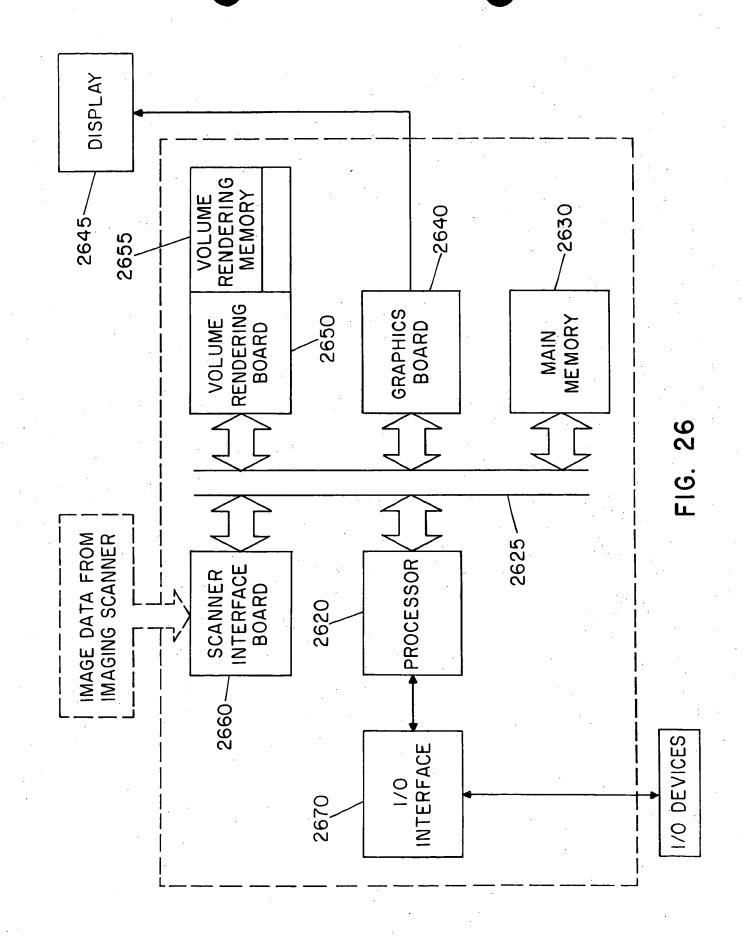
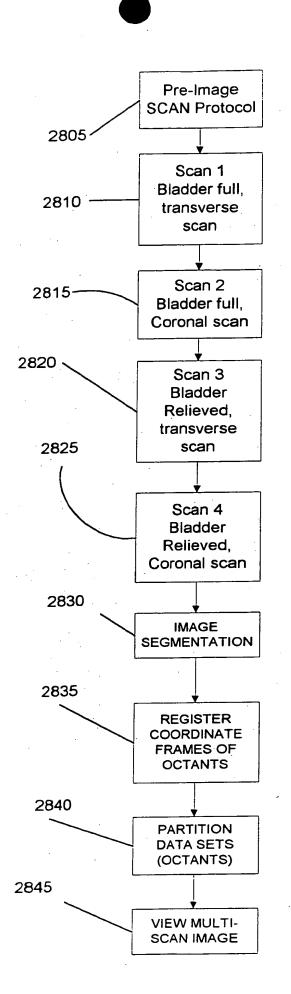


FIG. 27

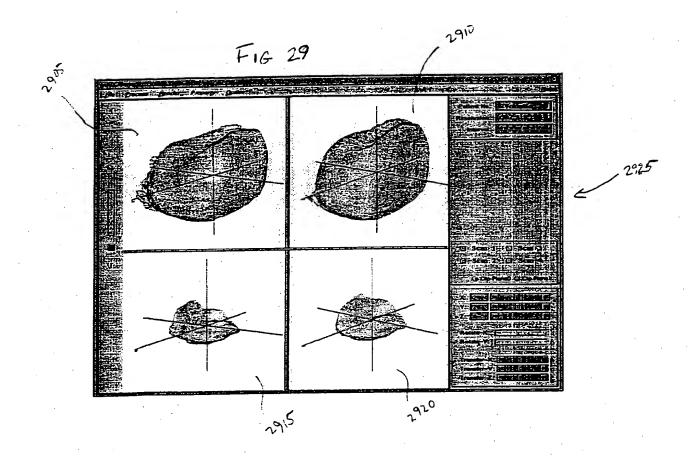




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٧<del>..</del>.

F16 28



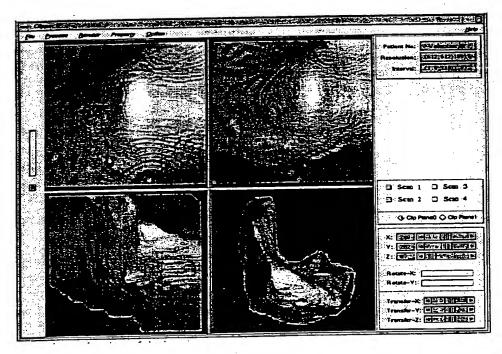


FIG. 30

FIG. 31

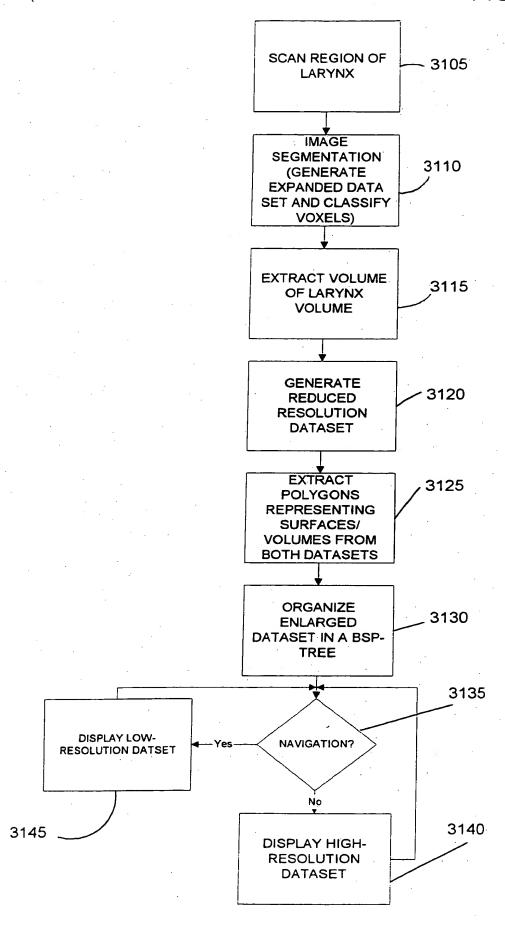
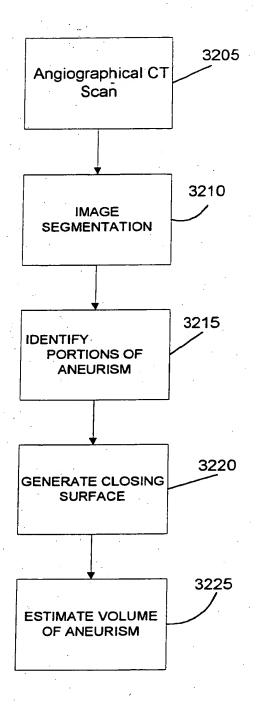
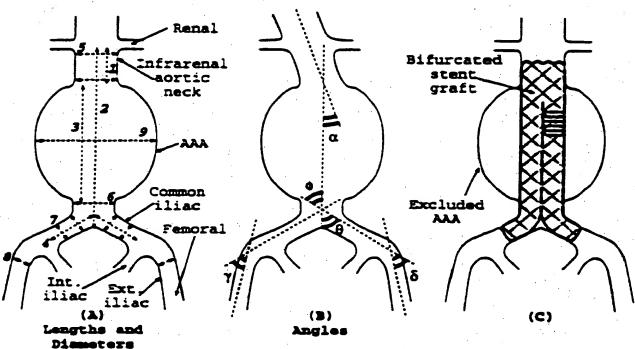
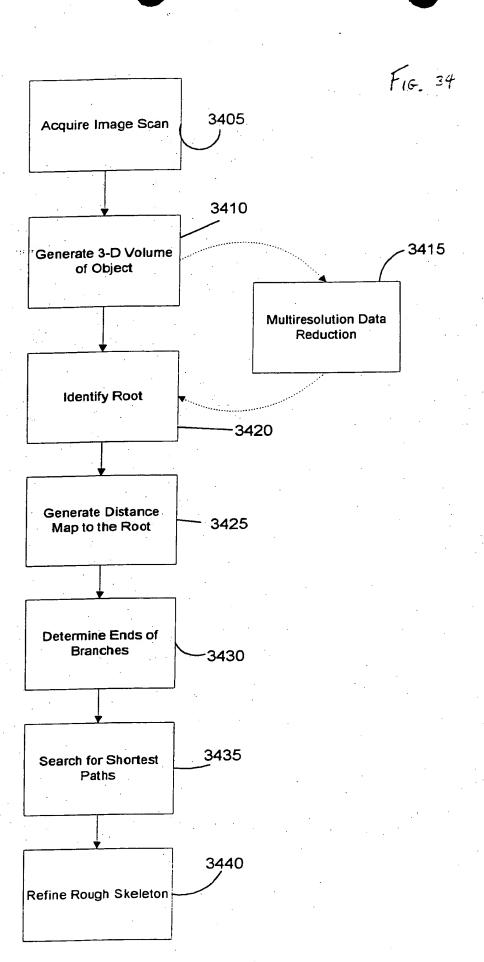


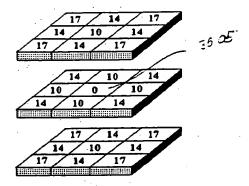
FIG. 32







## Fig. 35



F16. 36

```
1) Label root voxel with integer 0;
```

2) Construct a queue and line up the root in the queue;

end of calculating the distance map.

```
3) If (There is at least one voxel in the queue )
     Serve the voxel x on the top of the queue:
     For( each of x's 26-connected neighbor voxel y) {
         If (y in the volume and has not been labeled yet) {
             Line up the y in the queue;
             /* label the voxel y */
             Set dist = 999999;
             For( each of y's 26-connected neighbor voxel z ) {
                If (z) in the volume and has been already labeled with an integer of n, (z)
                     d_z \equiv n_z + d(y, z);
                     where d(y,z) is 10, 14 or 17 if the Euclidean distance between y and z is
                    1,\sqrt{2}, or \sqrt{3}, respectively;
               If (dist > d_z) {
                   label y with integer dist;
                   disi = d_z;
    x leaves the queue;
Else {
```